

Appendix D Sample TREX Input and Output

TREX MODEL INPUTS

These values will be used in the calculation of exposure estimates for foliar, granular, liquid and/or seed applications of pesticides.

Chemical Name:	phosmet
Use:	tree nut
Product name and form:	
% A.I. (leading zero must be entered for formulations <1% a.i.):	100.00%
Application Rate (lbs/A):	5.95
Half-life (days):	4
Application Interval (days):	5
Number of Applications:	2

Note: Sources of wildlife diet are assumed to be available for less than one year for this model.

Endpoints

Avian

		Indicate test species below	Optional Test Organism Body weight (g)	Optional Test Species Name
LD50 (mg/kg-bw)	2000.00	Bobwhite quail		
LC50 (mg/kg-diet)	501.00	Bobwhite quail		
NOAEL (mg/kg-bw)		Mallard duck		
NOAEC (mg/kg-diet)	60.00	Mallard duck		
Enter the Mineau et al. Scaling Factor		1.15		

Mammals

LD50 (mg/kg-bw)	113.00
LC50 (mg/kg-diet)	
Reported Chronic Endpoint	1.50 mg/kg-bw
Is dietary concentration (mg/kg-diet) reported from the available chronic mammal study? (yes or no)	no
Enter dietary concentration (mg/kg-diet)	
Estimated Chronic Diet Concentration Equivalent to Reported Chronic Daily Dose	30 mg/kg-diet based on standard FDA lab rat conversion

LD50 ft-2

Application Type:

Broadcast	▼	1
Granular	▼	1

Make sure to enter an application rate above

Do not use this input
Do not use this input
Do not use this input
Do not use this input

TREX MODEL INPUTS

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phosmet

Summary of Risk Quotient Calculations Based on Upper Bound Kenega EECs

Table X. Upper 90th Percentile Kenega, Acute Avian Dose-Based Risk Quotients									
Size Class (grams)	Adjusted LD50	EECs and RQs							
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
20	1440.86	2310.14	1.60331	1058.82	0.73	1299.46	0.90	144.38	0.10
100	1834.29	1317.34	0.71818	603.78	0.33	741.01	0.40	82.33	0.04
1000	2591.00	589.79	0.22763	270.32	0.10	331.76	0.13	36.86	0.01

Table X. Upper 90th Percentile Kenega, Subacute Avian Dietary Based Risk Quotients								
LC50	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
	501	2028.40	4.04870	929.68	1.86	1140.98	2.28	126.78

Size class not used for dietary risk quotients

Table X. Upper 90th Percentile Kenega, Chronic Avian Dietary Based Risk Quotients								
NOAEC (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
	60	2028.40	33.80667	929.68	15.49	1140.98	19.02	126.78

Size class not used for dietary risk quotients

Table X. Upper 90th Percentile Kenega, Acute Mammalian Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Granivore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
15	248.35	1933.92	7.786939	886.38	3.57	1087.83	4.38	120.87	0.49	26.86	0.11
35	200.95	1336.60	6.651554	612.61	3.05	751.84	3.74	83.54	0.42	18.56	0.09
1000	86.92	309.90	3.565494	142.04	1.63	174.32	2.01	19.37	0.22	4.30	0.05

Table X. Upper 90th Percentile Kenega, Acute Mammalian Dietary Based Risk Quotients								
LC50 (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
	0	2028.40	#DIV/0!	929.68	#####	1140.98	#####	126.78

Size class not used for dietary risk quotients

Table X. Upper 90th Percentile Kenega, Chronic Mammalian Dietary Based Risk Quotients								
NOAEC (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf		Fruits/Pods/	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
30	2028.40	67.61333	929.68	30.99	1140.98	38.03	126.78	4.23

Size class not used for dietary risk quotients

Table X. Upper 90th Percentile Kenega, Chronic Mammalian Dose-Based Risk Quotients											
Size Class (grams)	Adjusted NOAEL	EECs and RQs									
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Granivore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
15	3.30	1933.92	586.6161	886.38	268.87	1087.83	329.97	120.87	36.66	26.86	8.15
35	2.67	1336.60	501.0837	612.61	229.66	751.84	281.86	83.54	31.32	18.56	6.96
1000	1.15	309.90	268.6006	142.04	123.11	174.32	151.09	19.37	16.79	4.30	3.73